

Abstract

In order systematically to register individual, or a combination of, adverse influences on, and in order to be able better to estimate, service life or ability of a measuring field-device to function, at least one relevant influencing variable, preferably, however, a plurality thereof, is/are evaluated. In such case, in addition to a measured value (24) for a process variable, further variables (25) and (26) are registered by corresponding sensors mounted on, or in, the measuring field-device and conditioned in analog format in suitable operating circuits, preparatory to registering them digitally with the same A/D-converter (21) that registers the measurement signal A for the process variable. Multiplexer (22) permits selection of the desired input signal, which is then processed further with the aid of a microprocessor (23). Then, the combined effect of the different influencing variables is determined and a remaining, probable service life calculated. In case the influencing variables (25, 26) assume critical values, the microprocessor (23) can trigger an alarm signal.